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# **TECHNICAL DATA SHEET 479**

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# Acrylamide & N,N'-Methylenebisacrylamide

Polysciences offers Electrophoresis grade Acrylamide and N,N'-Methylenebisacrylamide (Bis) in many convenient configurations and quantities.

### Acrylamide, Electro Pure<sup>™</sup> Triply Recrystallized

<b>-</b>	
Assay:	99.9% min
pH (1% soln.):	6.5 <u>+</u> 0.5
Conductivity (35% soln.):	2 µmho max
OD <sub>252nm</sub> (7mM soln.):	1.15 max
Free acrylic:	0.001% max
Bis, Electro Pure <sup>™</sup>	
Assay:	99.9% min
pH (1%):	5.5 min
	. –

pH (1%):	5.5 min
Heavy metals:	1.5ppm max
Free acrylic:	0.1% max
0D290nm 1%:	0.5 max

#### Acrylamide/Bis Powder Premixes

Polysciences has combined its ultra pure Acrylamide and Bis powders in premeasured premixed ratios of 19:1, 29:1, 37.5:1. Only #00019 and #00719 are used in the powder formulations. The premixes come in an amber glass bottle to which you directly add water to 100ml to make 100ml of a 30% solution in the desired ratio. This reduces hazardous exposure to neurotoxic dust.

## **Acrylamide 40% Solution**

- #00019 used in formulation
- Only 18 megaohm water used in formulation
- Sterile filtered
- Safety coated, amber glass bottle

#### **Bis 2% Solution**

- #00719 used in formulation
- Only 18 megaohm water used in formulation
- Sterile filtered
- Safety coated, amber glass bottle

## INSTRUCTIONS

Liquid solutions of Acrylamide and Bis reduce exposure to neurotoxic dust by eliminating the need for handling and weighing of solid acrylamide and/ or bis. Eliminate the time-consuming steps of formulation, deionization and filtration with Polysciences "Ready-to-go" solutions - simply pour and dilute!

Should any of our materials fail to perform to our specifications, we will be pleased to provide replacements or return the purchase price. We solicit your inquiries concerning all needs for life sciences work. The information given in this bulletin is to the best of our knowledge accurate, but no warranty is expressed or implied. It is the user's responsibility to determine the suitability for their own use of the products described herein, and since conditions of use are beyond our control, we disclaim all liability with respect to the use of any material supplied by us. Nothing contained herein shall be construed as a recommendation to use any product or to practice any process in violation of any law or any government regulation.



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Liquid solution of acrylamide and bis can be used directly in your gel recipe. For example:

1.	100ml of 40% acrylamide solution contains		
	40g acrylamide	therefore	1g acrylamide
	100mL solution		2.5 mL solution

2.	100mL of 2% bis solution contains		
	2g bis	therefore	1g bis
	100mL solution		2.5mL solution

3. To make a 10% gel with 2.5% crosslinking you need 9.75g acrylamide and 0.25g bis:
1g acrylamide in 2.5ml
9.75g x 2.5mL = 24.375mL acrylamide 40% solution

1g1g bis in 50mL
0.25g x <u>50mL</u> = 12.5 mL bis 2% solution 1g

4. Therefore, 24.4mL acrylamide 40% solution

+ 12.5mL bis 2% solution 36.9mL add water/buffer to 100mL will provide you with the same 10%, 2.5% crosslinked gel.

#### **ORDERING INFORMATION:**

Cat. #	Description	Size	
00019	Acrylamide	100g, 500g	(bulk available upon request)
00719	Bis	25g, 100g	(bulk available upon request)
17452	Acrylamide/Bis Powder Premix 19:1	6 x 30g	
19847	Acrylamide/Bis Powder Premix 29:1	30g, 6 x 30g	
17451	Acrylamide/Bis Powder Premix 37.5:1 (or 30:0.8)	30g, 6 x 30g	

#### **TO ORDER**

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